Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-03-12** **Date: 06-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP,
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2018-2019
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample ID No	:	2018-09-03-12 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-09-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	_
2	Finess by Air permeablity method (m^2/kg,Min)	285.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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ಬ. ಜ. ಮ ಕಾ . ಬೆಂಗಳೂರು-97

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-03-12** **Date: 03-10-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2018-2019
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample ID No	:	2018-09-03-12 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-09-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-03-12** **Date: 06-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2018-2019
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample ID No	:	2018-09-03-12 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-03-12** **Date: 06-09-2018**

Sample ID No : 2018-09-03-12 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.67**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.22**	_

Note:
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-03-12** **Date: 06-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/91/2018-2019
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample ID No	:	2018-09-03-12 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-09-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

AE-II

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-03-12** **Date: 06-09-2018**

Sample ID No : 2018-09-03-12 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97.

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Quality Manager

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Date.....

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-03-12** **Date: 06-09-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/91/2018-2019

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-09-2018

Sample ID No : 2018-09-03-12 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-09-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	201	407	40.7	59.3	30-70	55-90	75-100	90-100
5	600 micron	168	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	229	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	103	907	90.7	9.3	0-10	0-10	0-10	0-15
8	Pan	93	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

AE-II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-09-03-12** **Date: 06-09-2018**

Sample ID No : 2018-09-03-12 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.32	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Page 2/2
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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-09-03-12** **Date: 07-09-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2018-2019
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-09-2018
Sample ID No	:	2018-09-03-12 /07
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	04-09-2018

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	202	202	16322	32.850	2012.7	1996.7	Not less than 1800Kg/m^3
2	402	201	203	16403	32.610	1988.1		
3	401	202	202	16362	32.550	1989.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.980	32.100	5.86	4.91	Shall not be more than 10% by mass
2	33.560	32.080	4.61		
3	33.480	32.110	4.27		

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Lab ID : CP-2018-09-03-12 Date: 07-09-2018

Sample ID No : 2018-09-03-12 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	202	81204	432.9	5.3	5.5
2	401	201	80601	441.5	5.5	
3	404	203	82012	479.2	5.8	
4	403	202	81406	405.6	5.0	
5	400	200	80000	418.6	5.2	
6	401	200	80200	423.5	5.3	
7	402	201	80802	455.9	5.6	
8	401	203	81403	478.5	5.9	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-12-09** **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/91/2018-2019

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-09-12-09 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	17/09/2018	150.42 X 150.44 X 150.45	22629	8.324	303.2	13.4	13.1
2	PCC	M15	10/09/2018	17/09/2018	150.32 X 150.54 X 150.35	22629	8.334	296.4	13.1	
3	PCC	M15	10/09/2018	17/09/2018	150.22 X 150.54 X 150.55	22614	8.365	289.5	12.8	

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ಬ. ಬೆ. ಮ ಸಾ., ಬೆಂಗಳೂರು-97

Page 1/1
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/10/2018

Lab ID	:	**CP-2018-09-12-09**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2018-2019
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-2018
Sample ID No	:	2018-09-12-09 /02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	08/10/2018	150.42 X 150.44 X 150.45	22629	8.324	389.2	17.2	17.4
2	PCC	M15	10/09/2018	08/10/2018	150.32 X 150.54 X 150.35	22629	8.334	391.5	17.3	
3	PCC	M15	10/09/2018	08/10/2018	150.22 X 150.54 X 150.55	22614	8.365	400.3	17.7	

Note:

The results pertain to the samples received and tested.
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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆ. ಮ ಕಾ . ಬೆಂಗಳೂರು-560 097

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-12-09** **Date: 17/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/91/2018-2019

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-09-2018

Sample ID No : 2018-09-12-09 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	17/09/2018	149.47 X 149.63 X 151.51	22365	7.948	279.9	12.5	12.4
2	PCC	M15	10/09/2018	17/09/2018	150.05 X 149.74 X 151.85	22468	8.438	280.6	12.5	
3	PCC	M15	10/09/2018	17/09/2018	149.02 X 150.96 X 150.81	22496	8.247	276.8	12.3	

Note:

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AE-II

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-92

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R KARTHIK RECHAN
Authorized Signatory
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Page 1/1

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-09-12-09** **Date: 08/10/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2018-2019
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-2018
Sample ID No	:	2018-09-12-09 /04
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/09/2018	08/10/2018	151.65 X 150.91 X 150.17	22885	8.287	389.9	17.0	17.3
2	PCC	M15	10/09/2018	08/10/2018	151.70 X 151.19 X 151.65	22937	8.210	400.4	17.5	
3	PCC	M15	10/09/2018	08/10/2018	149.08 X 149.20 X 149.20	22242	8.346	387.9	17.4	

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆಂ. ಮ. ಪಾ. ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
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CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-15-02** **Date: 20/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/91/2018-2019

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-09-2018

Sample ID No : 2018-09-15-02 /01

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M20	13/09/2018	20/09/2018	150.27 X 150.34 X 150.38	22592	8.311	379.5	16.8	17.1
2	C C Pavement	M20	13/09/2018	20/09/2018	150.29 X 150.32 X 150.39	22592	8.271	386.3	17.1	
3	C C Pavement	M20	13/09/2018	20/09/2018	150.41 X 150.38 X 150.35	22619	8.280	395.8	17.5	

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AE-II

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ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆಂ. ಮ ಕಾ. ಬೆಂಗಳೂರು-97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-09-15-02** **Date: 11/10/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2018-2019
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-09-2018
Sample ID No	:	2018-09-15-02 /02
Customer ID	:	C C Pavements
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavements	M20	13/09/2018	11/10/2018	149.87 X 150.44 X 150.63	22546	8.199	516.3	22.9	22.8
2	C C Pavements	M20	13/09/2018	11/10/2018	150.47 X 149.66 X 150.23	22519	8.145	520.2	23.1	
3	C C Pavements	M20	13/09/2018	11/10/2018	150.46 X 150.75 X 150.42	22682	8.163	510.3	22.5	

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AE-II

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ
ಬ. ಬೆ. ಮ. ಕಾ. ಬೆಂಗಳೂರು

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CIVIL PRO BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-15-02** **Date: 20/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/91/2018-2019

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-09-2018

Sample ID No : 2018-09-15-02 /03

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M20	13/09/2018	20/09/2018	149.87 X 150.23 X 150.66	22515	8.159	412.0	18.3	17.7
2	C C Pavement	M20	13/09/2018	20/09/2018	150.65 X 150.23 X 150.98	22632	8.176	398.3	17.6	
3	C C Pavement	M20	13/09/2018	20/09/2018	151.44 X 150.66 X 149.78	22816	8.135	390.2	17.1	

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ಯಲಹಂಕ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-15-02** **Date: 11/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/91/2018-2019

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-09-2018

Sample ID No : 2018-09-12-09 /04

Customer ID : C C Pavements

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavements	M20	13/09/2018	11/10/2018	150.42 X 150.54 X 150.45	22644	8.312	538.9	23.8	
2	C C Pavements	M20	13/09/2018	11/10/2018	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	23.5
3	C C Pavements	M20	13/09/2018	11/10/2018	150.32 X 150.54 X 150.35	22629	8.345	536.3	23.7	

Note:

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆಂ. ಮ ಸಾ . ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-15-02** **Date: 20/09/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/91/2018-2019

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-09-2018

Sample ID No : 2018-09-15-02 /05

Customer ID : C C Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavement	M20	13/09/2018	20/09/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	C C Pavement	M20	13/09/2018	20/09/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	C C Pavement	M20	13/09/2018	20/09/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

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AE-11

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆಂ. ಮ ಪಾ . ಬೆಂಗಳೂರು

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Job ID	:	CP-2018-09-15-02 **Date: 11/10/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Maintenance of Community Property in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	Executive Engineer, KRIDL,#280, 59th Cross road, 17th C Main road, 3rd Y Block, Rajajinagara,Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/91/2018-2019
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-09-2018
Sample ID No	:	2018-09-15-02 /06
Customer ID	:	C C Pavements
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	C C Pavements	M20	13/09/2018	11/10/2018	150.42 X 150.54 X 150.45	22644	8.312	534.4	23.6	23.3
2	C C Pavements	M20	13/09/2018	11/10/2018	150.42 X 150.54 X 150.45	22644	8.331	518.6	22.9	
3	C C Pavements	M20	13/09/2018	11/10/2018	150.32 X 150.54 X 150.35	22629	8.345	531.8	23.5	

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

Page 1/1
****End of Report****